

EDUCATION

Purdue University Ph.D. in Computer Science Advisers: Muhammad Shahbaz	West Lafayette May 2020 – Present
University of California, San Diego M.S. in Electrical and Computer Engineering Advisor: Xinyu Zhang	La Jolla, California March 2020
Beijing University of Posts and Telecommunications B.E. in Electrical and Computer Engineering Advisor: Anfu Zhou	Beijing, China Sep 2018

PROFESSIONAL & RESEARCH EXPERIENCE

Purdue University Assistant in Research – (Ongoing) Profiling and analysis the system load of 5G mobile core.	West Lafayette, IN May 2020 – Present
Intel Labs Research Scientist Intern – Implemented in-network ML aggregation and Map/Reduce operations on programmable data planes.	Hillsboro, OR May 2021 – Aug 2021
University of California, San Diego Research Assistant – Implemented and evaluated the millimeter-wave vehicle-to-everything (mmWave V2X) use case for 5G NR [3]. – Designed and developed X-Array [4] for prototyping and evaluating omnidirectional millimeter-wave (mmWave) network.	La Jolla, CA Sep 2018 – Mar 2020
Beijing University of Posts and Telecommunications Assistant in Research – Designed and developed KPad [6], a system to increase channel utilization in Wi-Fi MU-MIMO. – Developed Romil [1, 5] for robust indoor mmWave communication.	Beijing, China Aug 2014 – Jun 2018

PUBLICATIONS

Journal Articles

1. Anfu Zhou, Shaoqing Xu, Song Wang, *Jingqi Huang*, Shaoyuan Yang, Teng Wei, Xinyu Zhang, and Huadong Ma. Robotic Millimeter-Wave Wireless Networks. **IEEE/ACM Transactions on Networking**, 28(4):1534–1549, 2020

Conference Papers

2. Haotian Deng, Qianru Li, *Jingqi Huang*, and Chunyi Peng. iCellSpeed: Increasing Cellular Data Speed with Device-Assisted Cell Selection. In **ACM MobiCom**, 2020
3. Song Wang*, *Jingqi Huang**, and Xinyu Zhang. Demystifying Millimeter-Wave V2X: Towards Robust and Efficient Directional Connectivity Under High Mobility. In **ACM MobiCom**, 2020. (*equal contribution)
4. Song Wang*, *Jingqi Huang**, Xinyu Zhang, Hyoil Kim, and Sujit Dey. X-array: Approximating Omnidirectional Millimeter-Wave Coverage Using an Array of Phased Arrays. In **ACM MobiCom**, 2020. (*equal contribution)
5. Anfu Zhou, Shaoqing Xu, Song Wang, Jingqi Huang, Shaoyuan Yang, Teng Wei, Xinyu Zhang, and Huadong Ma. Robot Navigation in Radio Beam Space: Leveraging Robotic Intelligence for Seamless mmWave Network Coverage. In **ACM MobiHoc**, 2019
6. Song Wang*, *Jingqi Huang**, and Anfu Zhou. KPad: Maximizing Channel Utilization for MU-MIMO Systems Using Knapsack Padding. In **IEEE ICC**, 2018. (*equal contribution)

SYSTEMS & PROGRAMMING SKILLS

- Languages: Python, C/C++, P4, and SQL
- Technologies – Ansible, SDN/OpenFlow, ONF Aether, Docker, Kubernetes, Mininet, and Wireless Insight

RECOGNITIONS AND AWARDS

- 2022 Meta PhD Research Fellowship Finalist
- Beijing University of Posts and Telecommunications Scholarship for Undergraduate Education (2015–2017)